

LASER CUTTING APPARATUS FOR MANUFACTURING STAMPER USED FOR MOLDING OPTICAL DISC, HAS AUTOFOCUSING LIGHT SOURCE TO FOCUS LASER RADIATION ON RESIST LAYER FOR DETECTING FOCAL GAP FOR RECORDING, FROM REFLECTED LIGHT

Patent Assignee: SONY CORP (SONY)

Inventor:

PATENT FAMILY

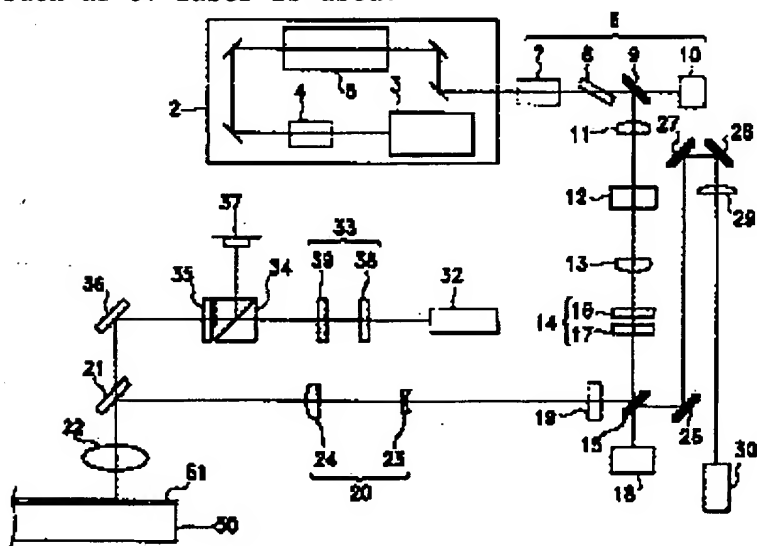
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Abstract: JP 2000033487A

**NOVELTY** - An autofocussing light source (32) focuses the laser radiation through an objective lens (22) on the resist layer (51) formed on a glass substrate (50). Focal gap of laser radiation for recording is detected from the reflected light.

**USE** - For manufacturing stamper used for molding optical disc.

**ADVANTAGE** - Focal gap for recording is detected easily from the irradiated and reflected light rays, by the provision of autofocussing light source. Interference fringe pattern is formed by the focussing and reflection of light rays through the objective lens and hence inhibition of normal focal control is avoided. Control of focus is performed efficiently even when laser radiation with shorter wavelength such as UV laser is used.



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